BV [illegible]; [illegible], J., A.TM C.

Spontaneous lymphatic leukaemia in Wistar rat. Neoplasma (Bratisl.) 12 no.1:15-20 '65

1. Oncological Research Institute, Bratislava, Czechoslovakia.

HLAVAY, E.

6693. **Erythro-leukaemia in the rat caused by cell-free filtrate of carcinoma.** F. Svec, E. Hlavay, V. Thurzo, and P. Kosser (*Acta haemat., Basel.*, 1957, 17, 34—41 (Abt. f. exp. Krebsforsch., Onkolog. Inst. zu Bratislava, Czechoslovakia).—Subcut. injection of cell-free filtrates of BS tumour in young rats produced a myeloid leukaemia with involvement of the erythropoietic system in 20% of the animals after a latent period of 6—8 months. (German)

G. W. Casarett

SVEC, Frantisek; HLAVAYOVA, Elena

The problem of leukemia in childhood; a contribution. Neoplasma, Bratisl. 5 no.2:119-122 1958.

1. Oncological Research Institute Bratislava. Authors' address; Dr. F. Svec, Dr. E. Hlavayova, Bratislava, Cs. armady 17.
(LEUKEMIA, experimental,
in young rats)

(HLAVAYOVA, E.)

SVEJDA, Jaroslav; KOSSEY, Peter; HLAVAYOVA, Elena; SVEC, Frantisek

Histological picture of the transplantable rat leukaemia induced by X-irradiation and methylcholantrene. Neoplasma, Bratisl. 5 no.2: 123-131 1958.

1. Oncological Research Institute, Bratislava Patho-Anatomical Institute, Faculty of Medicine, Masaryk University, Brno. Authors' address: Dr. J. Svejda, Brno, Pekarska 53; Dr. P. Kossey, Dr. Hlavayova, Dr. F. Svec, Bratislava, ul. Cs. armady 17.

(LEUKEMIA, EXPERIMENTAL,
methylcholanthrene & x-ray induced in rats)
(METHYLCHOLANTHRENE, effects,
exper. leukemia in rats)
(ROENTGEN RAYS, effects,
same)

HLAVAYOVA, E.

Toxication of myleran in rats by the homologous bone marrow.
Neoplasma,Bratisl. 7 no.1 suppl:137-141 '60.

(BONE MARROW transpl)
(BUSULFAN toxicol)

HLAVAYOVA, E.; KOSSEY, P.; SMIDA, J.; SVEC, F.

Further experiments with a leukaemogenic inducer present in BS tumour. Neoplasma 9 no.5:457-463 '62.

1. Oncological Research Institute, Bratislava, CSSR.
(NEOPLASMS, EXPERIMENTAL) (LEUKEMIA, EXPERIMENTAL)

CZECHOSLOVAKIA

F. SVEC, H. HLAVAYOVA and V. DITTERTOVA, Oncology Research Institute (Vyskumny ustav onkologicky)Chief (reditel) Docent Dr V. THURZO, and Department of Pharmacodynamics, Chemistry Institute of the Slovak Academy of Sciences, Czechoslovak Academy of Sciences (Oddelenie farmakodynamiky Chemickego ustavu SAV - CSAV) Head (prednosta) F. SELECKY [illegible] CSc, Bratislava.

"Pharmacology and Toxicology of 6-Azauracil Riboside."

Prague, Casopis Lekaru Ceskych, Vol 102, No 19, 10 May 63; pp 505-511.

Abstract [English summary modified] : Comprehensive studies in rats, rabbits and cats: urinary levels after 0.1 and 1 Gm /Kg. i.v. in healthy and hepatitic rats confirm that compound is degraded by liver; 0.1 Gm /Kg. did not affect respiration, BP or BP response to epinephrine in cats; slightly potentiated acetylcholine contraction of ileum; at 0.1 [illegible] Gm /Kg. in cat heart-lung preparation it induces bradycardia and [illegible] heart minute volume more susceptible to phenobarbital depression [illegible], 6 tables, 4 kymograms; 7 Western, 8 Czech & 1 Hungarian refere[illegible].

CZECHOSLOVAKIA / General Problems of Pathology. Tumors. U-5
Metabolism.

Abs Jour : Ref Zhur - Biol., No. 10, 1958, No. 46835

Author : Svec, Frantisek; Hlavayova, Helena.
Inst : Not given
Title : The Tissue Iron in the Course of Adenocarcinoma BS of the Rat.

Orig Pub : Ceskosl. onkol., 1956, 3, No. 1, 48-55

Abstract : After transplantation of sarcoma 180, the development of anemia in mice does not depend upon iron deficiency in the organism since the content of tissue iron increases and iron absorption is not disrupted. The development of an adenocarcinoma BS graft is accompanied by a severe anemia and by an increase of the Fe content in the organism and in the organs (especially in the liver, in the lungs,

Card 1/2

CZECHOSLOVAKIA / General Problems of Pathology. Tumors. U-5
Metabolism.

Abs Jour : Ref Zhur - Biol., No. 10, 1958, No. 46835

Abstract : kidneys, testes, and muscles) in rats. During the stage of cachexia the amount of Fe entering the tumor is higher than the total content of Fe in the internal organs. The increase in the amount of functional Fe in the tumor and its accumulation in the organs takes place at the expense of Hb. The development of anemia is considered to be a result of toxic functional disturbances.

Card 2/2

HORANSKY, V.; MERKA, J.; HLAVCO, J.; SOLTES, L.

Chronic generalized tuberculous lymphadenitis (Leitner) in a 10-year-old girl. Cesk.pediat.16 no.3:245-248 Mr '61.

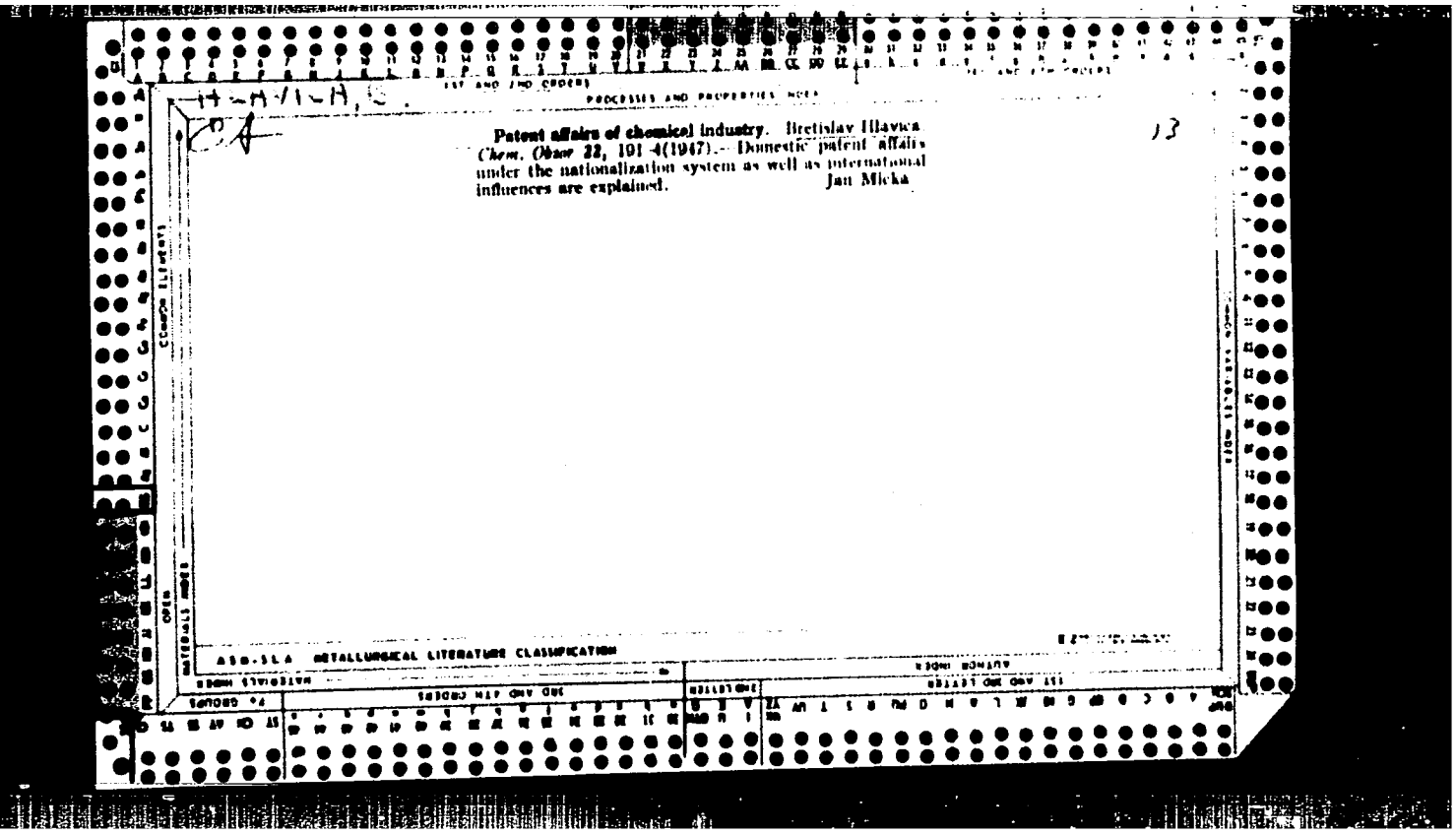
1. Detske odd. OUNZ v Lipt.Mikulasi, prednosta MUDr. V.Horansky.
(TUBERCULOSIS LYMPH NODE in inf & child)

HORANSKY, V.; SOLTES, L.; THOLT, R.; HLAVCO, J.; MERKA, J.

Staphylococcal empyema as a complication of morbilli. Cesk. pediat. 18 no.1:23-25 Ja '63.

1. Detske oddelenie OUNZ v Liptovskom Mikulasi, prednosta MUDr. V. Horansky Infekcne oddelenie OUNZ v Liptovskom Mijulasi, prednosta MUDr. R. Tholt.

(MEASLES) (STAPHYLOCOCCAL INFECTIONS RESPIRATORY)
(EMPYEMA)



Patent affairs of chemical industry. Bretislav Hlavica. *Chem. Obzor* **22**, 191-4(1947).—Domestic patent affairs under the nationalization system as well as international influences are explained. Jan Micka

HLAVICA, B.

CZECH

Chem & Educ

Hanc, O., Hummel, V., and Hlavica, B.: Chemical Literature, its Documentation and Use. Prague: Publishing House CSAV. 1954. 422 pp. Kčs. 75. Reviewed in Chem. Listy 49, 1099(1955).

CH (2)

Hanč, O., Hummel, V., and Hlavica, B.: Chemická literatura, její dokumentace a použití. Prague: Nakladatelství ČSAV. 1954. 422 pp. Kčs. 75. Reviewed in *Chem. Listy* 49, 1099(1955).

L 23926-66

ACC NR: AT5027856 SOURCE CODE: CZ/2503/65/000/011/0135/0166

19
B+1

AUTHOR: Klir, Jiri; Hlavicka, Jan

ORG: Research Institute of Mathematical Machines, Prague

TITLE: Logical design of sequential asynchronous switching circuits

SOURCE: Ceskoslovenska akademie ved. Vyzkumny ustav matematickych stroju. Stroje na zpracovani informaci, no. 11, 1965, 135-166

TOPIC TAGS: switching circuit, internal code, linear graph, memory element

ABSTRACT: This paper contains a methodical approach to the logical design of sequential asynchronous switching circuits. All necessary steps in the design are described, but the main attention is concentrated on the assignment of an internal code. Logical features of memory elements are also discussed, and some practical results are contained in the paper. The behavior of a sequential asynchronous switching circuit may be represented by a linear graph. Two interpretations of the linear graph, namely a state diagram and a flow table, are used for the design. The procedure of the assignment of an internal code begins with an internal state diagram, all points of which are mutually different in respect to the corresponding states of memory elements. In order to prevent a race of memory elements, it is prescribed that each line of any internal state diagram always represents a change of only one memory element. The number of lines belonging to the shortest path between two points 2

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ACC NR: AT5027856

u and v of an internal of an internal state diagram defines the element c_{uv} of the matrix of changes, from which several matrices of distances of the internal code sought may be derived. The question of realizability of a matrix of distances is studied, and two ways of designing an internal code are introduced: a linear-programming approach and marti-comparison method. Some bounds for the number of memory elements are also contained in the paper. The complete design of sequential asynchronous switching circuits is illustrated by several examples. Orig. art. has: 12 figures, 21 tables, and 16 formulas. [Author's abstract] [KS]

SUB CODE: 09/ SUBM DATE: 18Jan64/ ORIG REF: 004/ OTH REF: 017/ SOV REF: 005/

Card 2/2 BK

HLAVICKA, Josef

Improvement of the educational work of the Revolutionary Trade-Union Movement. Prace mzda 12 no.1:1-4 Ja '64.

1. Tajemnik Ustredni rady odboru.

HLAVICKOVA, J.; CHODERA, J.; PAVLANSKY, R.

Return of muscular function in chronic poliomyelitis following adjustment of statics. Acta chir. orthop. traum. Cech. 32 no.4: 348-352 Ag '65.

1. Oddeleni fyzikalni lecby a rehabilitace (vedouci MUDr. A. Rydvalova), vyzkumne proteticke pracoviste Spofa (vedouci MUDr. J. Chodera) a Klinicka zakladna pro ortopedii Ustavu detskeho lekarstvi (vedouci doc. dr. R. Pavlansky) v nemocnici v Praze 8 na Bulovce.

CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. Water Treatment. Sewage. H-5

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 23804

Author : Berka, J., Hadek, J., Hlavikova, Ye., Jelinek, V., Novak, Z.

Inst : -

Title : Investigation of Operation of the Quick Acting Sand Filters.

Orig Pub : Voda, 1956, 35, No 12, 382-387

Abstract : The investigation was conducted on a semi-commercial scale. Filters (F) had areas of 1 x 1 m and 0.1 x 0.1 m and were equipped with devices for the removal of water samples and for the pressure measurements at

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CZECHOSLOVAKIA/Chemical Technology. Chemical Products and Their Applications. Water Treatment. Sewage. H-5

Abs Jour : Ref Zhur-Khimiya, No 7, 1959, 23804

varying depths. The coagulation of water was attained with the use of 1 percent $FeCl_3 \cdot 6H_2O$ solution, introduced in doses of 2.4 mg/l. It was shown that under conditions of adequate mixing of water with reagents prior to filtration, the reagent dosage may be reduced by 60-70 percent. Sediments are retained on F equally well regardless of the impurities characteristics. -- S. Yavorovskaya

Card : 2/2

PRASIL, Jan; HLAVINKA, Frantisek

Plummer-Vinson syndrome (Kelly-Patterson syndrome). Cesk. otolar. 8 no.1:8-14 Feb 59.

1. Pos. nemocnice Olomouc a ORL oddeleni OUNZ Prerov. J. P., Posadkova nemocnice, Olomouc.
(DEGLUTITION DISORDERS.
Plummer-Vinson synd. (Cz))

DOLEZAL, Bohuslav, CSc.; HLAVINKA, Jiri, inz.

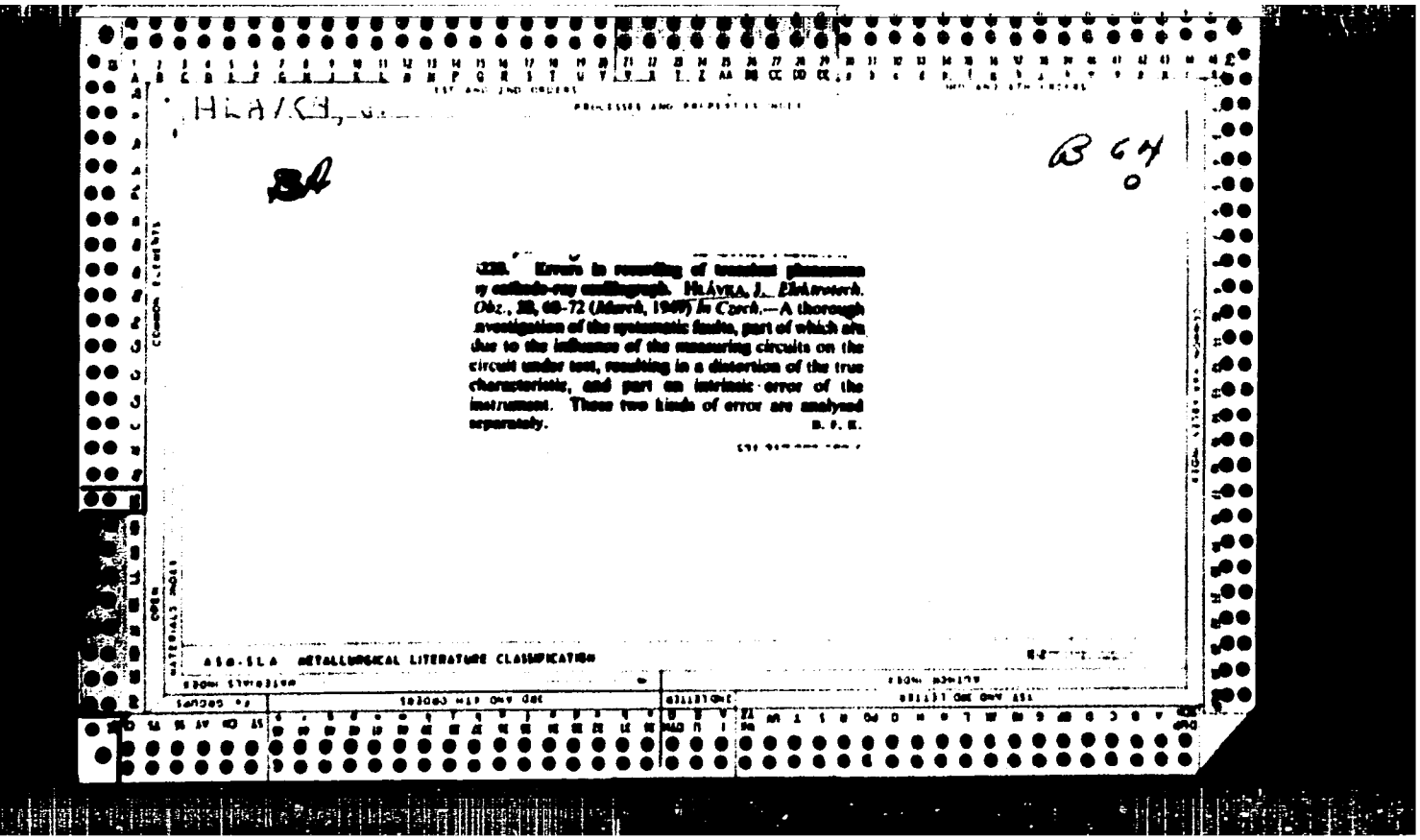
New trends in slaughtering methods and slaughter house equipment.
Prum potravin 16 no.1:8-11 Ja '65.

1. Research Institute of Meat, Brno. Submitted October 2, 1964.

SVOBODA, M., inz.; GILLAR, J., promovany biolog; SALPLACHTA, J.; HLAVKA, C. M., inz.; STELCLOVA, D.; MARVAN, P., RNDr.

Last stage purification of dairy waste waters by biologic filters. Vodni hosp 14 no.6:219-222 '64.

1. Institute of Dairy Research Brno (for all except Marvan).
2. Research Institute of Water Resources Management, Brno (for Marvan).



HLA/CB

B4

B 64
O

Errors in recording of transient phenomena by cathode-ray oscillograph. HLÁVKA, J. *Elektrotech. Obz.*, 38, 68-72 (March, 1949) *In Czech.*—A thorough investigation of the systematic faults, part of which are due to the influence of the measuring circuits on the circuit under test, resulting in a distortion of the true characteristic, and part an intrinsic error of the instrument. These two kinds of error are analyzed separately. B. F. R.

ASM-SLA METALLURGICAL LITERATURE CLASSIFICATION

Transformers

S.A. HLAVKA, J.

Sect. B

621.314.2.044

1044. Increasing the strength of the insulation of the input turns of a transformer winding. B. HELLER, J. HLÁVKA AND A. VEVERKA. *Elektrotech. Obz.*, 39, 1-4 (No. 1-2, 1950) In Czech.

Investigation of the voltage distribution in coil windings with uniform and non-uniform insulation thickness in the case of a voltage surge. It was found that the sudden change in coil inductance due to non-uniform thickness of the insulation adversely affects the electric stress conditions and that if a shield ring is used it is preferable to use insulation of uniform thickness. The experimental winding used in the tests and the results obtained are described. B. OBER

HLAVKA, J.

"Superconductivity," p. 182.
(Elektrotechnicky Obzor, Vol.42, No.4, Apr. 1953, Praha.)

SO: Monthly List of East European Accessions, Vol.2, No.9, Library of Congress, September 1953, Uncl.

HLAVKA, J.; BASTA, J.

"Jan Hlavka's Stridave proudy (Alternating Currents); a book review."

Elektrotechnicky Obzor. Praha, Czechoslovakia. Vol. 48, no. 3, Mar. 1959.

Monthly list of East European Accessions (EEAI), LC, Vol. 8, No. 6, Jun 59, Unclas

PHASE I BOOK EXPLOITATION CZECH/4845

Hlavka, Jan, Doctor, Engineer, Professor, Doctor of Technical Sciences

Přechodné jevy v elektrických obvodech (Transients in Electric Circuits) Prague, Státní nakladatelství technické literatury, 1960. 185 p. 1,200 copies printed.

Reviewer: Bedřich Heller, Doctor, Engineer, Doctor of Technical Sciences, Corresponding Member of the Czechoslovak Academy of Sciences, State Prize Winner; Tech. Ed.: Marie Králová; Chief Ed.: František Kašpar, Doctor, Engineer; Resp. Ed.: Ladislav Zeníšek, Engineer.

PURPOSE: The book is intended for people working in research and development institutions in the field of electrical engineering and also for students in schools of higher education.

COVERAGE: This is a theoretical monograph on transients in electric circuits containing linear and nonlinear components. The book outlines mathematical

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solutions of transients, properties of electric-circuit components during transient processes, and gives considerable attention to the solution of random processes. The author thanks Doctor B. Heller, Engineer, for reviewing the manuscript and for his many valuable remarks. There are 45 references: 13 Czech, 1 Slovak, 8 Soviet, 8 English, 1 French, and 14 German.

TABLE OF CONTENTS:

26010
Z/017/60/049/003/002/004
E192/E382

9,2572

AUTHOR: Hlávka, Jan, Professor Engineer, Doctor of Technical Sciences

TITLE: Parametric Oscillations in a Damped Oscillatory Circuit

PERIODICAL: Elektrotechnický obzor, 1960, Vol. 49, No. 3, pp. 124 - 129

TEXT: The conditions of appearance of paramagnetic resonances in a simple oscillatory circuit are analysed under the assumption that the oscillations are "rectangular" in shape. The above implies that during a half-period the value of the relevant parameter is constant and the equation of the system can easily be solved. The system considered is shown in Fig. 1. During the interval from zero to T/2 (and during all the odd half-periods) the damping of this circuit is β_1, its resonance frequency is ω_{01}, while during the interval T/2 to T (and during all the even half-periods) the damping is β_2 and the resonance frequency is ω_{02}; T is the

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period of the parametric oscillations. It is therefore necessary to solve the following equations:

$$x_1'' + 2\beta_1 x_1' + \omega_{o1}^2 x_1 = 0 \qquad (1)$$

$$x_2'' + 2\beta_2 x_2' + \omega_{o2}^2 x_2 = 0$$

in such a way that the solutions $x_1(t)$ and $x_2(t)$ coincide at points $t = T/2$ and $t = T$. In Eqs. (1), $\beta = R/2L$ and $\omega_o = 1/\sqrt{LC}$. The general solutions of Eqs. (1) are in the form:

$$\left.\begin{aligned} x_1 &= e^{-\beta_1 t}(A_1 \cos \omega_1 t + B_1 \sin \omega_1 t) \\ x_2 &= e^{-\beta_2 t}(A_2 \cos \omega_2 t + B_2 \sin \omega_2 t) \end{aligned}\right\} \qquad (2)$$

where

$$\omega_1 = \sqrt{\omega_{o1}^2 - \beta_1^2}$$

$$\omega_2 = \sqrt{\omega_{o2}^2 - \beta_2^2}$$

Parametric Oscillations ....

The condition that the solution be periodic is that values should be the same at $t = 0$ and at T ; apart from the above, at $t = T/2$ the function $x_1(T/2)$ should "merge" continuously with $x_2(T/2)$. From these conditions it is possible to calculate the constants A_1, A_2, B_1 and B_2 .

In general, the condition for the appearance of the oscillations can be formulated by stating that $x_2(T) \neq x_1(0)$ but can be greater or smaller, depending on whether the oscillations increase or are attenuated. These conditions can be stated as:

$$x_1\left(\frac{T}{2}\right) = x_2\left(\frac{T}{2}\right)$$

$$x'_1\left(\frac{T}{2}\right) = x'_2\left(\frac{T}{2}\right) \qquad (3) .$$

$$x_2(T) = a\,x_1(0)$$

$$x'_2(T) = a\,x'_1(0)$$

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Parametric Oscillations ....

By considering the determinant of Eqs. (2) it is shown that the boundary of the stability of the parametric oscillations (i.e. the boundary of the so-called parametric resonance) is given by:

$$\cos \omega_1 \frac{T}{2} \cos \omega_2 \frac{T}{2} - \frac{\omega_1^2 + \omega_2^2 + 4\lambda^2}{2\omega_1 \omega_2} \sin \omega_1 \frac{T}{2} \sin \omega_2 \frac{T}{2} = \cosh \bar{\beta} T \qquad (5)$$

which is true for $\bar{\beta} \geq 0$. In the above equations, $2\lambda = \beta_2 - \beta_1$, and $2\bar{\beta} = \beta_2 + \beta_1$. From Eq. (5), it is possible to determine the dependence of the boundary of the parametric resonance on the characteristics of the circuit and the frequency and magnitude of the parametric oscillations. In practice, the most important parameters influencing the parametric resonance are the damping of the circuit and the changes of a given parameter. If the capacitor of the system

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Parametric Oscillations ....

is modulated in accordance with

$$C = C_0(1+M) \quad \text{for } 0 < t < \frac{T}{2}$$

$$C = C_0(1-M) \quad \text{for } \frac{T}{2} < t < T$$

where M is the amplitude of the parametric oscillations, the relative value $\nu_0 = \omega_0/\Omega = \omega_0 T/2\pi$ of the resonance frequency of the circuit is given by:

$$\nu_0 = n\sqrt{1 \pm M}$$

$$n = 1, 2, 3, \qquad (7).$$

The above is valid for the case when the damping of the circuit is neglected. On the other hand, when the damping is taken into account, the relative resonance frequency is

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Parametric Oscillations ....

defined by:

$$\nu_0 = n\sqrt{1 \pm M}\sqrt{(1 \pm \varkappa)^2 + \frac{b^2}{n^2}} \qquad (10)$$

where $b = \bar{\beta}/\Omega$ and $\varkappa = \varepsilon/n\gamma$, where ε can be obtained from the solution of Eq. (5). In the case of a circuit with a dynamic resistance which varies beteen $-R$ and $+R$ (with $\bar{\beta} = 0$), the relative frequency is given by:

$$\nu_0 = n\sqrt{1 + \frac{b^2}{n^2}} \qquad (13).$$

For the same case but for finite damping, the following is true:

$$\nu_0 = n\sqrt{(1 \pm \varkappa)^2 + \frac{b^2}{n^2}(1 \pm M)^2} \qquad (16).$$

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Parametric Oscillations ....

For the case of a dynamic inductance modulated as $L = L_o(1 \pm M)$, the relative resonance frequency is expressed by:

$$\nu_o = n\sqrt{(1 \pm \gamma)^2(1 \pm M) + \frac{b^2}{n^2}\frac{1}{(1 \pm M)}} \qquad (17)$$

From the above investigations, it is concluded that:
1) there always exist the so-called regions of parametric resonance in an oscillatory circuit with parametric modulation; these regions lie in the vicinity of those resonance frequencies of the circuit which are a multiple of the frequency of the parametric oscillations;
2) the resonance regions are widened as the amplitude of the parametric oscillations is increased;
3) the resonance regions are narrowed as the damping of the circuit is increased;
4) the boundary curves determined in this work are, to some extent, applicable to the parametric oscillations of other shapes (for example - sinusoidal).

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26010
Z/017/60/049/003/002/004
E192/E382

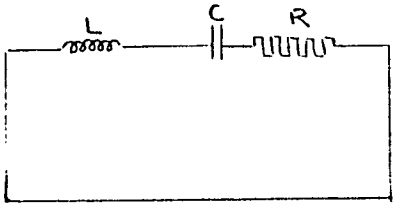
Parametric Oscillations ....

There are 5 figures and 5 references: 1 Czech and 4 non-Czech.
The two English-language references quoted are:
Ref. 4 - McLachlan, N. -Chinese reprint, 1950;
Ref. 5 - Coulthard, W. - " reprint, 1950.

ASSOCIATION: ČSAV

SUBMITTED: October 13, 1959

Fig. 1:



Card 8/8

S/194/62/000/002/064/098
D290/D301

AUTHOR: Hlávka, Jan

TITLE: Solving the wave equation by Fourier's method

PERIODICAL: Referativnyy zhurnal, Avtomatika i radioelektronika, no. 2, 1962, 23, abstract 2Zh154 (Acta techn. (CSR), 1961, 6, no. 3, 242-250)

TEXT: The author studied uniform lines, whose elements were arbitrary combinations of resistance, capacitance, and inductance. A voltage $u_o(t)$ is applied at one end of the line. The voltage at any point on the line $u(x,t)$ is found as a function of time. The general Fourier solution does not always have physical meaning. In particular, if a signal

$$u_o(t) = \delta_o(t) = \frac{1}{2} + 1/\pi \int_0^\infty \frac{\sin \omega t}{\omega} \, d\omega$$

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S/194/62/000/002/064/098
D290/D301

Solving the wave equation ...

is fed into an ideal low-frequency filter, then

$$u(x,t) = \frac{1}{2} + 1/\pi \int_0^{\omega_0} \frac{\sin \omega(t - x/v)}{\omega} \, d\omega$$

in which ω_0 is the cut-off frequency of the filter. For $x = 0$ and $t = 0$, $u(0,0) \not\equiv 0$; this is inconsistent with a finite value v for the velocity of propagation. Other examples are given. It is shown that the cause of physically inadmissible results lies in the method itself and not in the selection of idealized problems. The finite velocity of propagation can be taken into account by using a function $\delta_0(t - x/v)$; this leads to results that have physical meaning. This substitution is shown to be valid. The author gives an approximate calculation of the integral that occurs in the ex-

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S/194/62/000/002/064/096
D290/D301

Solving the wave equation ...

pression u(x,t) if this substitution is made. [Abstracter's note: Complete translation.]

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38780
S/194/62/000/005/131/157
D271/D308

9.3230

AUTHOR: Hlávka, J.

TITLE: On the Fourier solution of the wave equation

PERIODICAL: Referativnyy zhurnal. Avtomatika i radioelektronika, no. 5, 1962, abstract 5-7-40 t (Acta Techn. (Czechoslovakia))

TEXT: The solution of the wave equation by the Fourier method is analyzed. The Fourier transform theory is used in the analysis. Expressions are derived which characterize the waveform propagated in the line. Let a voltage, variable with time according to a given law act at the input of a uniform line the elements of which are formed by a combination of resistances, inductances and capacitances. Voltage at an arbitrary point on the line is to be found. Mathematically, the problem is described by the partial differential equation:

$$D_{x,t}(u) = 0$$

and by given initial and boundary conditions:

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On the Fourier solution of the ...

$$u(x, D) = 0$$
$$u(D, t) = u_o(t).$$

The solution of this equation by the Fourier method is of the form:

$$u_\omega = \sin(\omega t - kx).$$

Complete solution of the line equation is obtained in the integral form:

$$u(x, t) = \int_0^\infty A(\omega) \sin(\omega t - kx) d\omega.$$

When unit voltage is applied

$$u(x, t) = \frac{1}{2} + \frac{1}{\pi} \int_0^\infty \frac{\sin(\omega t - kx)}{\omega} d\omega.$$

The last expression, although correct from the formal point of view, is not realizable physically because it represents voltage which exists before the input voltage was applied. This antinomy is elimi-

On the Fourier solution of the ...

nated by the introduction of o-function defined by

$$u(x, t) = \frac{2}{\pi} \int_0^\infty \delta_o(t - t') \frac{\sin(t - t')}{\omega} d\omega.$$

In the point x = 0, i.e. when t' = 0

$$d_o(t) = \delta_o(t) = \frac{2}{\pi} \int_0^\infty \delta_o(t) \frac{\sin \omega t}{\omega} d\omega$$

t' is here regarded as a function of frequency. Introducing a new variable

$$\tau = t - \frac{x}{v_m}$$

the wave form can be investigated without complicated integration; here v_m is the maximum propagation velocity of partial waves. Of great importance here is the function

$$\varphi(\omega) = \frac{1}{v} - \frac{1}{v_m},$$

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On the Fourier solution of the ...

where v is the propagation velocity of the partial wave. The method which has been developed is, by way of an example, applied to the study of the front wave form propagated on a line, the equivalent circuit of which, is similar to a m-derived low-pass filter. For this line

$$v = \sqrt{(1 - \omega^2)},\ v_m = v_m = v_o = 1$$

and

$$\varphi(\omega) = \frac{1}{v} = \frac{1}{v_m} = \frac{1}{\sqrt{(1 - \omega^2)}} - 1.$$

The wave front corresponds to low values of τ. For large values of τ

$$u(x, t) = \frac{2}{\pi} \mathrm{Si}(\Omega)\hat{o}_o(\tau)$$

where

$$\Omega = \int_0^{\tau} \omega_1 \, d\tau.$$

1 reference. (Academy of Sciences of Czechoslovakia). [Abstractor's note: Complete translation].

Card 4/4

HLAVKA, Jan, inz. dr., DrSc.

Function analysis of the thermistor gauge for liquid and gas velocity flow measurment. El tech cas 14 no.9:521-535 '63.

1. Ustav pro elektrotechniku, Ceskoslovenska akademie ved, Praha 1, Vaclavske namesti 55.

HLAVKA, K.

Academician Radim Kettner; a biographic note. p. 210.
(Sbornik, Vol. 61, no. 3, 1956, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC, Vol. 6, no. 6, June 1957, Uncl.

HLAVKA, K.

Seventy years of Brigadier General Ubald Kolarik; a biographic note. p. 211. (Sbornik, Vol. 61, no. 3, 1956, Praha, Czechoslovakia)

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Third Regional Geological Conference at the Silesian Institute of the Czechoslovak Academy of Sciences. Cas min geol 8 no.4: 410-411 O '63.

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Glaucoma screening in 3 health districts of the regional Institute of National Health in Kolin. Cesk. zdrav. 13 no.3:122-126 Mr '65

1. Namestek reditel pro lecebne preventivni peci Obvodniho ustavu narodniho zdravi v Kolline (for Hlavka). 2. Vedouci ocniho oddeleni Obvodniho ustavu narodniho zdravi v Kolline.(for Jirsa).

SVOBODA, Miloslav, inz.; SALPLACHTA, Jaromir; HLAVKA, C. Miroslav, inz.; STELCOVA, Darja

Experience with the single-stage ferementing purification of dairy waste water. Prum potravin 14 no.4:193-197 Ap '63.

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Annual report and work organization at a health center. Cesk. zdravot. 7 no.7:386-389 Aug 59.

1. Vedouci zdravotnickeho useku odvetvoveho odboru rady ONV Kolin. Zastupce reditele OUNZ pro prev. lec. peci.
(PUBLIC HEALTH ADMINISTRATION)

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A case of glioma of the 3d ventricle in a 4-month-old infant. Neuropsihijatrija 9 no.4:325-328 '61.

1. Iz Zavoda za opcu patologiju i patolosku anatomiju Medicinskog fakulteta u Zagrebu (v. d. predstoinika doc. dr A. Zimolo)

(GLIOMA in inf & child)
(BRAIN NEOPLASMS in inf & child)
(CEREBRAL VENTRICLES neopl)

HLAVKA, V., MUDr.

Time spent by the health community physicians in office practice and on visiting service. Cesk. zdrav. 12 no.2:53-59 F'64

1. Namestek reditele pro lecebne preventivni peci, OUNZ Kolin.

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Idiopathic pulmonary hemosiderosis. Lijecn. vjesn. 87 no.2: 165-174 F '65.

1. Iz Djecjeg odjela i Prosekture Medicinskog centra u Sisku.

YUGOSLAVIA

VRANIC, Aladar, Dr; HLAVKA, Vladimir, Dr; CIGIT, Stjepko, Dr:
Institute of Pathology and Patho-Anatomy, Medical Faculty, University of Zagreb; Department of Pediatrics, Medical Center Sisak (Zavod za opstu patologiju i patolosku anatomiju Medicinsko fakulteta u Zagrebu; Djecji odjel Medicinskog centra Sisak).

"Acute Haemoperitoneum Due to Rupture of a Hepatic Tumor"

Zagreb, Radovi medicinskog fakulteta u Zagrebu, Vol 13, No 2, 1965, pp 167-173

Abstract /Authors' English summary/: Three cases of acute spontaneous haemoperitoneum with fatal termination are reported. The first case was an 18-month-old child with a hepatoblastoma of the liver, the second case was rupture of a primary carcinoma of the liver in a 56-year-old man, and the third case was a 34-year-old woman with rupture of a hepatic metastasis of primary solid carcinoma of the breast. The cause of the ruptures remained unexplained. The authors emphasize the significance of rupture of a primary or metastatic tumor of the liver in the differential diagnosis of an acute haemoperitoneum, especially since there have been cases described where intervention saved the patient's life. Pictures. 1 Yugoslav and 11 Western references. Manuscript received 12 Oct 1965.

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HLAVKA, Z.

"Collected Works on the Machine Industry". P. 779 (STROJIRENSTVI, Vol. 3, No. 10, October 1953, Praha, Czechoslovakia).

SO: Monthly List of East European Accessions, LC, Vol. 3, No. 5, May 1954, Unclassified

CZECHOSLOVAKIA

KRUTA, V., HLAVKOVA, J; Physiological Institute, Medical Faculty J.E.Purkyne University (Fysiologicky Ustav Lek. Fak. University J.E.Purkyne), Brno.

"The Period of Heart Contraction in Some Kinds of Mammals."

Prague, Ceskoslovenska Fysiologie, Vol 15, No 2, Feb 66, p 116

Abstract: The heart beat varies in mammals, from 10 to 500 per minute. Variations persist even in vitro. The longest and shortest periods of contraction at a given temperature are characteristic of a given animal, but differ much less than the frequency of the heart beat. Values found at 20 and 35°C for guinea pig, cat and dog differed very little, only rat myocardium showed substantially lower values. 2 Czech references. Submitted at "16 Days of Physiology" at Kosice, 28 Sep 65.

HLAVKOVA, M.

Outings. p.138.
(Zeleznicar, No. 5, May 1957, Praha, Czechoslovakia)

SO: Monthly List of East European Accessions (EEAL) LC. Vol. 6, No. 9, Sept. 1957. Uncl.

HLAVKOVA, M.

"Thermit welding. p.247

ZELEZNICAR, (Ministertvo dopravy) Praha, Czechoslovakia No. 11, Nov. 1958

Monthly List of East European Accessions (EEAI) LC, Vol. 8, no. 6, June 1959

Uncl.

CA HLAVNIČKA, J.

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Antitubercular activity of 2-amino-4-hydroxy-5-pyrimidinecarboxylic acid, pyrimidine analog of *p*-aminosalicylic acid. F. Šorm, J. Hlavnička, J. Sicher, and A. Šimek (Central Chem. Inst., Prague, Czech.). *Chem. Listy* **45**, 422-3(1951). Guanidine carbonate (4 g.) in aq. KOH (2.1 g. in 10 ml.) was treated with EtOCH:C(CO_2Et)$_2$, crystals of Et 2-amino-4-hydroxy-5-pyrimidinecarboxylate were sepd. and recrystd. from water with a small amt. of EtOH or from AcOH, yield 4.3 g. (62%), m. 290° (decomp.). The free acid was obtained from its ester by sapon. with ethanolic KOH and acidification with AcOH in a 76% yield, m. 250° (decomp.). Its Na salt crystallizes with 2 H_2O. Tuberculostatic activity of this acid is half that of *p*-aminosalicylic acid. M. Hudlický

HLAVNICKA, J.

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6331. Identification of antioxidants in rubber. J. HLAVNIČKA and E. TURKOVÁ. *Plasty a Kauč.*, 1957, 4, 124–8. The general principles, and the disadvantages, of the existing methods are briefly surveyed. The new method described involves the use of acetone extraction followed by alumina column chromatography in benzene and washing in 95% benzene–5% ethanol. The product is dissolved in 1 ml hot acetone and paper-chromatographed with petroleum/aqueous or ammoniacal ethanol, the product being identified by the R_F values and by the aid of diazo-p-nitraniline. The colours given by this substance with the antioxidants tested are listed. Diazo sulphanilic acid is given as an alternative to diazo-p-nitraniline, and some R_F values and illustrations are given. There are 15 references.

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S/081/62/000/010/081/085
B166/B144

AUTHORS: Hlavnička, Jiří, Nevařil, Josef

TITLE: Contribution to the question of evaluating modified oils from the point of view of their action on oil-resistant rubber

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 10, 1962, 657, abstract 10P406 (Kaučuk a plast. hmoty, no. 8, 1961, 254-255)

TEXT: The swelling of oil-resistant rubbers in transformer oil containing chlorinated paraffin additives has been studied. The oil resistance of rubber increases with the content of acrylonitrile. Chlorinated paraffins and lowering of the aniline point increase the aggressiveness of oils. With an identical aniline point an oil containing chlorinated paraffins is more aggressive than one without them. [Abstracter's note: Complete translation.]

Card 1/1

1. HLAVOCKOVA, EVA.

CZECHOSLOVAKIA/Soil Cultivation. Organic Fertilizers. J-4

Abs Jour: Ref Zhur-Biologiya, No 1, 1958, 1282.

Author : Hlavockova, Eva
Inst : Czechoslovak Academy of Agriculture.
Title : Preparation and Application of Bacterial Fertilizers in Agriculture.

Orig Pub: Sbor. Ceskosl. akad. zemed. ved. Rostl. vyroba, 1956, 29, No 9-10, 909-936 (Czech with Russian, English, and German resumes)

Abstract: The material presented was prepared for a conference of agronomist-microbiologists. The experimental data given characterize the effectiveness of inoculating leguminous crops with various strains of nodular bacteria. Foreseen for 1960 is the bacterization with nitrazon and azotobakter

Card : 1/2 -17-

CZECHOSLOVAKIA/Soil Cultivation. Organic Fertilizers J-4

Abs Jour: Ref Zhur-Biologiya, No 1, 1958, 1282.

of 250,000 hectares and 50,000 hectares respectively. Construction is commencing on the first factory of bacterial preparates. Its productivity will be in the order of from 120-150,000 hectare portions. Proposals for stepping up production and increasing the application of bacterial fertilizers are given, as well as for intensification of the necessary research. Bibliography of 116 titles.

Card : 2/2 -18-

HOSKOVA, A.; HLAVON, J.

Subcapsular hematoma of the liver in newborn infants. Cesk. pediat. 17 no.3:254-257 Mr '62.

1. I detska klinika University J. Ev. Purkyne v Brne, prednosta prof. dr. Zd. Brunecky.

(LIVER wds & inj) (HEMATOMA in inf & child)
(BIRTH INJURY)

HOSKOVA, A.; HLAVON, J.

On the problem of transitory biliary obstruction in young infants.
Cesk. pediat. 17 no.12:1071-1075 D '62.

1. I detska klinika lekarske fakulty University J. Ev. Purkyne v Brne, prednosta prof. dr. Z. Brunecky.
(HEPATITIS) (INFANT NEWBORN DISEASES) (BILIARY TRACT)

HLAVON, Jiri; VEDROVA, Drahomila

Effect of glucuronic acid on hyperbilirubinemia in newborn infants and on the elimination of bile pigments in the feces. Cas. Lek. Cesk. 101 no.11:327-331 16 Mr '62.

1. I detska klinika lek. University J. Ev. Purkyne v Brne, predn.osta prof. MUDr. Zd. Brunecky.

(GLUCURONATES pharmacol) (BILIRUBIN blood)
(FECES chemistry)

HLAVON, J.

A rare form of congenital cellular insufficiency — cyclic neutropenia. Cesk. pediat. 19 no.2:152-156 F'64.

1. I.detska klinika lekarske fakulty UJEvP v Brne; prednosta: prof.dr. Z.Brunecky.

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BERGMANN, K.; HLAVOVA, A.; HORAK, O.

Therapy of hypertension in out-patients with DH-ergotoxine. Cas. lek. cesk. 44 no.10:237-240 4 Mar 55.

1. Ustav pro choroby obehu krevniho, Praha; red. prof. Dr. Kl.Weber
(ERGOT ALCALOIDS, ther. use
dihydrogenated deriv. in hypertension in out-patients)
(HYPERTENSION, therapy
dihydrogenated ergot alcaloids in out-patients)

ŽAJIC, F.; FEJFAROVA, M.; HLAVOVA, A.; with the technical assistance of JOZIFKOVA, B.; VOJTOVA, M.

Experimental pulmonary cedema produced by alloxan. III. Haemodynamic and respiratory changes in vagotomised dogs. Cor Vasa 4 no.1:42-52 '62.

1. Institute for Cardiovascular Research, Prague.
(PULMONARY EDEMA exper) (ALLOXAN toxicol)
(VAGOTOMY exper) (RESPIRATION physiol)
(BLOOD CIRCULATION physiol)

ZAJIC, F.; FEJFAR, Z.; FEJFAROVA, M.; HLAVOVA, A.

Investigation of manifestations of cardiac insufficiency. Rev. czech. med. 8 no.3:152-158 '62.

1. Institute of Cardiovascular Research, Prague; Director: Academician K. Weber.
(HEART FAILURE, CONGESTIVE) (PULMONARY EDEMA)

NOVAK, M.; HLAVOVA, V. Techn. spolupraca: BRADLEROVA, J.; SKALOVA, Z. PELCOVA, V.

Experiences with balneological therapy of foreign patients in Karlovy Vary. Fysiat. vestn. 43 no.3:138-143 Je'65.

1. Ceskoslovenske lazne, Lazenska sanatoria Imperial, Karlovy Vary (reditel: MUDr. J. Hanycz).

HLAVSA, E.

"Utilization of waste from the glycerin distillation for the manufacture of noncorrosive efficient brine." p. 267

PRUMYSL POTRAVIN. Praha, Czechoslovakia, Vol. 9, No. 5, May, 1958

Monthly List of East European Accessions (EEAI), LC, Vol. 8, No. 9, September, 1959
Unclas

Prikryl, Antonin; HLAVSA, Petr

A new method of prerefinement of fresh rape oil. Prum potravin 15 no.8:494 Ag '64.

1. Severoceske tukove zavody Narodni podnik, Usti nad Labem (for Prikryl). 2. Research Institute of Fat Industry, Usti nad Labem (for Hlavsa).

HLAVSA, František

Diaphragm molding of cores. Slevárenství 13 s. [illegible] An 'ed.

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On the problem of conditioned reflex formation and association. Activ. nerv. sup. 4 no.1:45-50 '62.

1.Pedagogicky ustav J. A. Komenskeho, Praha.

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JEMNA MECHANIKA A OPTIKA, Praha, Czechoslovakia, Vol. 4, No. 6, June 1959.

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"Small analog computers" by Anatolij Konstatinovic Ganulic [Ganulich, Anatoliy Konstantinovich]. Reviewed by M.Hlavsa. Jemna mech opt 9 no. 9:296 S '64.

"Optical electron tubes" by [inz. CSc.] Vlad. Jares, [inz.CSc.] Mir.Jedlicka. Reviewed by M.Hlavsa. Ibid.:296

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Application of calculating machines in Yugoslavia. Jemna mech opt 9 no.11:2 of cover,3 of cover N '64.

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"Projection of small slides" by Jan Schlemmer. Reviewed by M. Hlavsa. Jemna mech opt 5 no.2:75 F '60.

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"Television aerial amplifiers and distributors; joint aerials" by Milan Cesky. Reviewed by M. Hlavsa. Jemna mechopt 6 no.9:294 S '61.

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" Reproduction photography, apparatus, equipment, techniques" by Jaroslav Salda. Reviewed by M. Hlavsa. Sdel tech 10 no.2:80 F '62.

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Electronics used successfully by economists. Sdel tech 10 no.8:306-307 Ag '62.

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"Descriptive geometry" by Miroslav Mensik. Pt. 1. Reviewed by M. Hlavsa. Jemna mech opt 8 no.5:167 My '63.

HLAVSA, M., dr.

"Operation and maintenance of control and regulation equipment" by [inz.] J. Petr. Reviewed by M. Hlavsa. Jemna mech opt 8 no.6:3 of cover Je '63.

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Ten years of the Czechoslovak Academy of Sciences activity brought results interesting for telecommunication engineering. Sdel tech 11 no.2:42 F '63.

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Vienna Fair 1963 shows new trends in telecommunication engineering.
Sdel tech 11 no.4:142 Ap '63.

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Thematic plan of optics and precision mechanics for 1965-1966.
Jemn. mech opt 10 no.3:104 Mr '65.

HLAWKA, EDMUND

Hlawka, Edmund. Inhomogene Linearformen in algebraischen Zahlkörpern. Akad. Wiss. Wien, S.-B. IIa. 155, 63–73 (1947).

The author extends the method of Siegel [see H. Davenport, Acta Arith. 2, 262–265 (1937)], relating to the product of n nonhomogeneous linear forms, to the case when the homogeneous parts of the linear forms are those arising from an "Ordnung" in an algebraic number-field, and its conjugates. The formulation of the main theorem is not altogether clear to the reviewer, and is incomplete as regards the reference to the determinant of the forms.

H. Davenport (London)

Source: Mathematical Reviews, Vol. [illegible]